

**STAT 249**  
Probability I  
*Winter 2018*

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- Office Hours:** TBA
- Text:** *Mathematical Statistics with Applications*, 7th Edition, by D. D. Wackerly, W. Mendenhall III and R. L. Scheaffer, Duxbury Press, 2007.
- Calculators:** Only calculators approved by the Department (with a sticker attached as a proof of approval), such as **Sharp EL 531** or the **Casio FX 300MS**, available at the Concordia Bookstore, are permitted for the class test and final examination. See <https://www.concordia.ca/content/dam/artsci/math-stats/docs/AppCalculatorList.pdf> for a list of approved and non-approved calculators.
- Assignments:** Assignments are compulsory. Students are expected to submit their assignments in class. **Late assignments will not be accepted.**
- Test:** Only **ONE MIDTERM** test will be held during the **7th or 8th week**. **NO MAKE UP TERM EXAM.**
- Final Exam:** There are no exemptions from this three-hour exam.
- Final Grade:** The final grade will be based on the higher of (a) or (b):
- (a) The weighted average of assignments (10%), **one** mid-term test (30%), and the final exam (60%).
  - (b) The weighted average of assignments (10%), **one** mid-term test (10%), and the final exam (80%).

If the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

**Important:** Please note that there is no “100%” final exam option in this course. Midterm test missed for any reason, including illness, cannot be made up. If you miss midterm test because of illness (to be confirmed by a valid medical note) the final exam can count for 90% of your final grade.

- Notes:**
- (1) In order to obtain a good grade, the student **MUST** show that she/he has a **THOROUGH** understanding of the subject and is good at problem solving.
  - (2) The final exam will cover everything taught from beginning to end.

| Week | Topics to be covered                                 |
|------|--|
| 1    | Section: 2.3, 2.4, 2.5                               |
| 2    | Section: 2.6, 2.7                                    |
| 3    | Section: 2.8, 2.9, 2.10                              |
| 4    | Section: 2.11, 3.1, 3.2                              |
| 5    | Section: 3.3<br>Section: 3.4 (Thm 3.7 without proof) |
| 6    | Section: 3.5 (Thm 3.8 without proof), 3.6            |
| 7    | Section: 3.7, 3.8, 3.9                               |
| 8    | Section: 3.10, 3.11, 4.2                             |
| 9    | Section: 4.3, 4.4                                    |
| 10   | Section: 4.5, 4.6                                    |
| 11   | Section: 4.7, 4.9, 4.10                              |
| 12   | Section: 4.11, 5.2, 5.3                              |
| 13   | Section: 5.4, 5.5, 5.6 & <b>Review</b>               |

#### **Academic Integrity and the Academic Code of Conduct**

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: [concordia.ca/students/academic-integrity](http://concordia.ca/students/academic-integrity)." [Undergraduate Calendar, Sec 17.10.2]